

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A system for measuring an angle of rotation, comprising:

an apparatus that measures the angle of rotation applied to a fastener by a tool beyond a specific reference point, the apparatus comprises a housing that includes a shaft and a angle rate sensor, the housing is configured to be positioned between the tool and fastener such that a first end of the shaft is directly connected to an end of the tool and a second end of the shaft is directly connected to the fastener, the shaft is linked to the angle rate sensor; and

an digital multimeter located apart from the tool, and linked to the apparatus.

2. (Previously Presented) The system of claim 1, wherein the housing further includes:

an angle selector adjustable to a desired angle;

a processor that calculates a current angle of rotation from the rate sensor measurements;

and

a zero point indicator that that sets a zero point for the processor to calculate the selected angle.

3. (Previously Presented) The apparatus of claim 2, wherein the zero point is the reference point for the processor to calculate a selected angle.

4. (Cancelled)

5. (Currently Amended) The apparatus of claim 1, wherein the angle indicator is ~~a digital multimeter~~ and a sound-generating device that activates when the selected angle of rotation has been reached.
6. (Original) The apparatus of claim 2, wherein the angle selector is a potentiometer.
7. (Original) The apparatus of claim 2, wherein the angle selector is a resistance ladder.
8. (Original) The apparatus of claim 2, wherein the processor is a microcontroller.
9. (Cancelled)
10. (Previously Presented) The device of claim 25, wherein the means for measuring comprises means for selecting a desired angle of rotation, means for calculating the angle of rotation from the data, means for indicating a zero point from which the means for calculating basis the angle measurement and means for indicating the current angle as determined by the means for calculating.
11. (Previously Presented) The device of claim 25, wherein the means for applying torque to a fastener comprises a shaft.
12. (Currently Amended) A method for determining an angle of rotation of a fastener, comprising:

 measuring the angle of rotation, as applied to the fastener by a tool, with a device, which comprises a housing that includes a shaft and an angle rate sensor, the housing is configured to

be positioned between the fastener and tool such that the shaft is directly connected to an end of the tool and directly to the fastener, the shaft is linked to an angle rate sensor that measures the speed and direction of the rotation applied; and

displaying the current angle of rotation with an angle indicator positioned away from and linked to the tool.

13. (Previously Presented) The method of claim 12 wherein the step of measuring the angle of rotation comprises:

selecting a desired angle using an angle selector located on the housing, which further comprises a processor, a zero point indicator and an angle indicator;

indicating a zero point to the processor;

applying torque to the fastener with the tool to which the device is attached to rotate the fastener;

measuring the rate and speed of the rotation with the angle rate sensor starting from the zero point; and

calculating an angle of rotation using the processor.

14. (Original) The method of claim 13, further comprising the step of indicating that the processor has accepted the zero point.

15. (Original) The method of claim 12, further comprising the step of alerting that the desired selected angle of rotation has been reached.

16. (Currently Amended) A system for measuring an angle of rotation at a fastener beyond a specific reference point, comprising:

a tool that applies torque to a fastener;

an apparatus that measures the angle of rotation beyond a specific reference point, the apparatus comprises a housing that includes an angle rate sensor that measures the speed and direction of the rotation applied and is configured to be located between the tool and fastener such that the shaft is directly connected to an end of the tool and the fastener; and

an angle indicator located away from and linked to the apparatus.

17. (Previously Presented) The system of claim 16 wherein the housing further comprises:

an angle selector adjustable to a desired angle of rotation;

a processor that calculates a current angle of rotation from the rate sensor measurements;

and

a zero point indicator that sets a zero point for the processor to calculate the selected angle.

18. (Original) The system of claim 16, wherein the tool comprises a ratchet.

19. (Original) The system of claim 16, wherein the tool comprises a socket.

20. (Original) The system of claim 17, wherein the angle selector comprises a potentiometer.

21. (Original) The system of claim 17, wherein the angle selector comprises a resistance ladder.

22. (Original) The system of claim 17, wherein the processor comprises a microcontroller.

23. (Previously Presented) The system of claim 17, wherein the angle indicator is a digital multimeter.

24. (Previously Presented) The system of claim 17, wherein the angle indicator is a digital multimeter and a sound generating device that activates when the selected angle of rotation has been reached.

25. (Currently Amended) A device for measuring an angle of rotation beyond a specific reference point, comprising:

means for enclosing configured to be located between a tool and a fastener such that the means for enclosing is directly connected to an end of the tool and directly to the fastener;

means for applying torque to the fastener, the means for applying torque is located within the means for enclosing;

means for measuring the angle of rotation of the fastener from the fixed reference point, the means for measuring located within the means for enclosing; and

means for displaying the current angle of rotation, the means for displaying located apart from and linked to the means for applying.